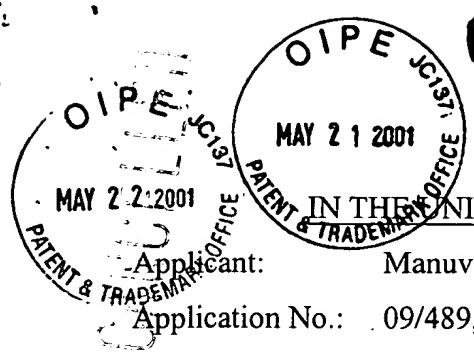


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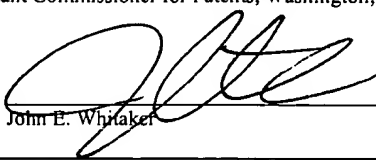
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Manuvir Das Examiner: Not Assigned
Application No.: 09/489,878 Group Art Unit: 2784
Filed: January 21, 2000 Docket No.: 777.361US1
[50037.42US01]
Title: METHODS FOR ENHANCING POINTER ANALYSES

CERTIFICATE UNDER 37 CFR 1.8:
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on

5/18/01


John E. Whitaker

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MAY 24 2001

Technology Center 2100

REVOCATION AND POWER OF ATTORNEY
CERTIFICATE UNDER 37 CFR § 3.73(b)

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. § 1.26, M.P.E.P. Section 402.05 and 402.07, please
revoke any existing Powers of Attorney and appoint the following attorneys and/or patent agents to
prosecute this application and to transact all business in the U.S. Patent and Trademark Office in
connection therewith:

Albrecht, John W.	Reg. No. 40,481	Carlson, Alan G.	Reg. No. 25,959
Ali, M. Jeffer	Reg. No. 46,359	Caspers, Philip P.	Reg. No. 33,227
Anderson, Gregg I.	Reg. No. 28,828	Chiapetta, James R.	Reg. No. 39,634
Batzli, Brian H.	Reg. No. 32,960	Clifford, John A.	Reg. No. 30,247
Beard, John L.	Reg. No. 27,612	Coldren, Richard J.	Reg. No. 44,084
Berns, John M.	Reg. No. 43,496	Daignault, Ronald A.	Reg. No. 25,968
Black, Bruce E.	Reg. No. 41,622	Daley, Dennis R.	Reg. No. 34,994
Branch, John W.	Reg. No. 41,633	Dalglish, Leslie E.	Reg. No. 40,579
Bremer, Dennis C.	Reg. No. 40,528	Daulton, Julie R.	Reg. No. 36,414
Bruess, Steven C.	Reg. No. 34,130	DeVries Smith, Katherine M.	Reg. No. 42,157
Byrne, Linda M.	Reg. No. 32,404	DiPietro, Mark J.	Reg. No. 28,707
Campbell, Keith	Reg. No. 46,597	Edell, Robert T.	Reg. No. 20,187

Epp Ryan, Sandra	Reg. No. 39,667	Phillips, John B.	Reg. No. 37,206
Glance, Robert J.	Reg. No. 40,620	Prendergast, Paul	Reg. No. 46,068
Goggin, Matthew J.	Reg. No. 44,125	Pytel, Melissa J.	Reg. No. 41,512
Golla, Charles E.	Reg. No. 26,896	Qualey, Terry	Reg. No. 25,148
Gorman, Alan G.	Reg. No. 38,472	Reich, John C.	Reg. No. 37,703
Gould, John D.	Reg. No. 18,223	Reiland, Earl D.	Reg. No. 25,767
Gregson, Richard	Reg. No. 41,804	Roberts, Fred	Reg. No. 34,707
Gresens, John J.	Reg. No. 33,112	Samuels, Lisa A.	Reg. No. 43,080
Hamer, Samuel A.	Reg. No. 46,754	Schmaltz, David G.	Reg. No. 39,828
Hamre, Curtis B.	Reg. No. 29,165	Schuman, Mark D.	Reg. No. 31,197
Harrison, Kevin C.	Reg. No. 46,759	Schumann, Michael D.	Reg. No. 30,422
Hertzberg, Brett A.	Reg. No. 42,660	Scull, Timothy B.	Reg. No. 42,137
Hillson, Randall A.	Reg. No. 31,838	Sebald, Gregory A.	Reg. No. 33,280
Holzer, Jr., Richard J.	Reg. No. 42,668	Skoog, Mark T.	Reg. No. 40,178
Johnston, Scott W.	Reg. No. 39,721	Spellman, Steven J.	Reg. No. 45,124
Kadievitch, Natalie D.	Reg. No. 34,196	Stoll-DeBell, Kirstin L.	Reg. No. 43,164
Karjeker, Shaukat A.	Reg. No. 34,049	Sullivan, Timothy P.	Reg. No. 47,981
Kettelberger, Denise	Reg. No. 33,924	Sumner, John P.	Reg. No. 29,114
Keys, Jeramie J.	Reg. No. 42,724	Swenson, Erik G.	Reg. No. 45,147
Knearl, Homer L.	Reg. No. 21,197	Tellekson, David K.	Reg. No. 32,314
Kowalchyk, Alan W.	Reg. No. 31,535	Trembath, Jon R.	Reg. No. 38,344
Kowalchyk, Katherine M.	Reg. No. 36,848	Tunheim, Marcia A.	Reg. No. 42,189
Lacy, Paul E.	Reg. No. 38,946	Underhill, Albert L.	Reg. No. 27,403
Larson, James A.	Reg. No. 40,443	Vandenburgh, J. Derek	Reg. No. 32,179
Leon, Andrew J.	Reg. No. 46,869	Wahl, John R.	Reg. No. 33,044
Leonard, Christopher J.	Reg. No. 41,940	Weaver, Karrie G.	Reg. No. 43,245
Liepa, Mara E.	Reg. No. 40,066	Welter, Paul A.	Reg. No. 20,890
Lindquist, Timothy A.	Reg. No. 40,701	Whipps, Brian	Reg. No. 43,261
Mayfield, Denise L.	Reg. No. 33,732	Whitaker, John E.	Reg. No. 42,222
McDonald, Daniel W.	Reg. No. 32,044	Wickhem, J. Scot	Reg. No. 41,376
McIntyre, Jr., William F.	Reg. No. 44,921	Williams, Douglas J.	Reg. No. 27,054
Mitchem, M. Todd	Reg. No. 40,731	Withers, James D.	Reg. No. 40,376
Mueller, Douglas P.	Reg. No. 30,300	Witt, Jonelle	Reg. No. 41,980
Nichols, A. Shane	Reg. No. 43,836	Wu, Tong	Reg. No. 43,361
Parsons, Nancy J.	Reg. No. 40,364	Xu, Min S.	Reg. No. 39,536
Pauly, Daniel M.	Reg. No. 40,123	Zeuli, Anthony R.	Reg. No. 45,255
Phillips, Bryan K.	Reg. No. 46,990		

In addition, I also hereby appoint the following attorneys to prosecute this application and to transact all business in the U.S. Patent and Trademark Office in connection therewith:

Katie E. Sako, Reg. No. 32,628
Daniel D. Crouse, Reg. No. 32,022

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Microsoft Corporation, a corporation organized and existing under the laws of the State of Washington, having a place of business at One Microsoft Way, Redmond, Washington 98052, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors which was sent for recordation to the Patent and Trademark Office on January 21, 2000. A copy of the Assignment is attached. To the best of my knowledge and belief, title is in Microsoft Corporation, the assignee.

Pursuant to 37 C.F.R. § 3.73(b) I hereby declare that I, the undersigned, am empowered to sign this certificate on behalf of Microsoft Corporation, the assignee.

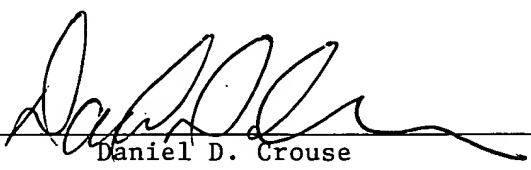
I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true.

Please direct all correspondence in this case to:

John E. Whitaker
Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903

MICROSOFT CORPORATION

Date: 5/16/01

By: 
Name: Daniel D. Crouse
Title: Assistant Secretary



ASSIGNMENT

WHEREAS, I, Manuvir Das (hereinafter referred to as ASSIGNOR), having a post office address of 13384 NE 134th Place, Kirkland, WA 98034 am the inventor of an invention entitled "METHODS FOR ENHANCING POINTER ANALYSES", as described and claimed in the specification forming part of an application for United States letters patent executed herewith;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 20th day of JANUARY, 2000.

Manuvir Das

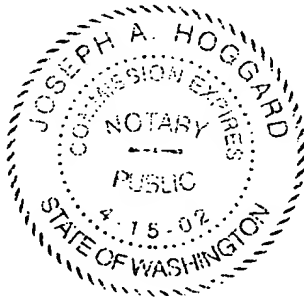
STATE OF Washington)

)ss.

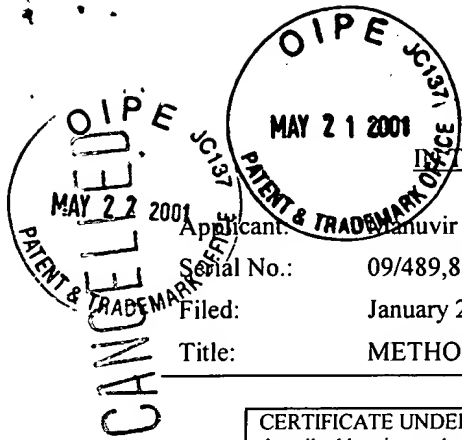
COUNTY OF King)

On this 20 day of JANUARY, 2000 before me personally appeared Manuvir Das to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Joseph A. Hoggard
Notary Public



2784
2133

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Manuvir Das

Examiner: Not Assigned

Serial No.: 09/489,878

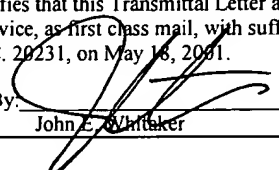
Group Art Unit: 2784

Filed: January 21, 2000

Docket: 50037.42US01 [777.361US1]

Title: METHODS FOR ENHANCING POINTER ANALYSES

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described herein, are being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on May 18, 2001.

By: 
John E. Whitaker

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Commissioner for Patents
Washington, D.C. 20231

Technology Center 2100

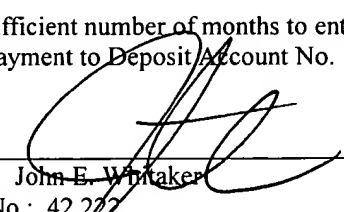
Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Sheet in duplicate containing Certificate of Mailing
- ☒ Revocation and Power of Attorney; Certificate Under 37 CFR § 3.73(b); copy of Assignment
- ☒ Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C.
P.O. Box 2903, Minneapolis, MN 55402-0903
206.342.6200

By: 
Name: John E. Whitaker
Reg. No.: 42,222
JEW:kh

